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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,195	06/27/2005	Kenichi Koyakumaru	264982US0PCT	1486
23850 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			DAVIS, ZINNA NORTHINGTON	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			1625	
			NOTIFICATION DATE	DELIVERY MODE
			08/04/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/522,195 KOYAKUMARU ET AL. Office Action Summary Examiner Art Unit Zinna Northington Davis -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will. by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
 realize to telphy winnin the set or testineted period or telphy with by statione, cause the approximation to become Advivourble. (as 0.50.5, § 153). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).
Status
1)⊠ Responsive to communication(s) filed on 28 May 2008.
2a) This action is FINAL . 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6)⊠ Claim(s) <u>1-10</u> is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.
Application Papers
9)☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d)
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:
 Certified copies of the priority documents have been received.
Certified copies of the priority documents have been received in Application No
3.☑ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
ktachment(s)

4) Interview Summary (PTO-413) 1) Notice of References Cited (PTO-892) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (FTO/SE/08) Paper No(s)/Mail Date 04/14/05 6) Other: PTOL-326 (Rev. 08-06) Part of Paper No./Mail Date 20080730 Office Action Summary

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DETAILED ACTION

1. Claims 1-10 are pending.

- Based upon Applicants remarks filed May 28, 2008, the election of species requirement is withdrawn. The claims are examined as a whole.
- The Preliminary Amendments filed April 1, 2005 and May 28, 2008 have been considered.
- 4. At page 1, after the title, the continuing data should be updated.
- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - It is suggested that the term "derivative" should be amended to read as a "compound".
- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over BASF A.G. (Reference AB, cited by Applicants) in view of Wakabayashi et al. (Reference AQ, cited by Applicants).

BASF A.G. teaches an aryl cross-coupling reaction in which a 2-benzene sulfonyl pyridine compound is reacted with an organic magnesium or zinc compound. At page 2, see the reaction scheme which is depicted as follows:

The difference between the prior art process and the instantly claimed process is the aromatic ring (carbocyclic versus heterocyclic) at the 2-positon of the pyridine ring.

Wakabayashi et al. teach a similar cross coupling reaction wherein the final product is heterocyclic at the 2-positon of the pyridine ring. It would have been obvious

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to one of ordinary skill in the art to interchange one aromatic ring for another in the cross coupling reaction in view of the similar chemical properties. Accordingly, the process is an obvious variant therefrom.

- 10. The Information Disclosure Statement filed April 14, 2005 has been considered.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zinna Northington Davis whose telephone number is 571-272-0682.
- The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Zinna Northington Davis/ Zinna Northington Davis Primary Examiner Art Unit 1625